

In the Claims:

Please cancel claims 2-8, replace claim 1, and add new claims 9-37, all as shown below.

1. (Currently Amended): A method for generating a custom MBean, comprising:
receiving an MBean definition file in XML format;
generating an MBean .jar file from the MBean definition file, wherein the MBean jar file includes a tag for the MBean and a tag for each attribute, operation, and potential notification issued by the MBean; and
installing the generated MBean types into a managed server within a management system;
placing the .jar file in a predetermined directory within a the managed server in a management domain, it is to reside in; and
starting the server.

2 - 8. (Cancelled)

9. (New): The method of claim 1, wherein scope of a custom MBean is a set of locations at which the custom MBean is available.

10. (New): The method of claim 9, wherein changes to an MBean are propagated from an administration server to all servers within the scope of the MBean.

11. (New): The method of claim 9, wherein applications and servers must go to a particular server to read a server-specific MBean.

12. (New): The method of claim 9, wherein an administration server contains a copy of all sharable MBeans located in a management domain.
13. (New): The method of claim 9, wherein all MBeans residing on a managed server are stored in the managed server's local repository in addition to the administration server's repository.
14. (New): The method of claim 9, wherein the scope is specified in the MBean definition file.
15. (New): The method of claim 9, wherein the scope is specified for a specific instance upon creation.
16. (New): The method of claim 9, wherein the scope is stored in the MBean information structure.
17. (New): The method of claim 9, wherein a request for a server specific MBean may be handled by any MBean server in the management domain of the MBean.
18. (New): The method of claim 9, wherein accessing a server specific MBean is performed through a logical canonical server corresponding to a managed server that the server specific MBean resides upon.

19. (New): The method of claim 9, wherein when a request is received for an MBean not available on a MBean server, the MBean server calls a method that returns a list of custom MBeans in the management domain.
20. (New): The method of claim 19, wherein the MBean server uses user-provided information including a provided object name pattern to qualify a search of the list of custom MBeans in the management domain.
21. (New): The method of claim 19, wherein the returned list of custom MBeans contains a name of a MBean and a name of a server each MBean resides upon.
22. (New): The method of claim 19, wherein an administration server contains a list of server specific MBeans in addition to shared MBeans.
23. (New): The method of claim 22, wherein the call to return a list of custom MBeans is configured to return all server specific MBeans in a management domain or a specific subset.
24. (New): The method of claim 1, wherein the tag for each attribute includes name, package, persist policy, persist period, description, and display name.
25. (New): The method of claim 1, wherein the operation definition tag includes a sub-tag instance for each argument of the operation.

26. (New): The method of claim 25, wherein attributes for the sub-tag instance are name and type.
27. (New): The method of claim 1, wherein a notification definition tag includes name, severity, and display name.
28. (New): The method of claim 1, wherein a local MBean server handles read attribute requests and MBean creation and deletion requests for server specific MBeans.
29. (New): The method of claim 28, wherein an administration server handles attribute writes and MBean creation and deletion requests for sharable MBeans.
30. (New): The method of claim 29, wherein an MBean Server Proxy routes read access to an appropriate server and MBean instance within the appropriate server and routes write accesses to the corresponding MBean instance on the administration server.
31. (New): The method of claim 1, wherein a custom MBean is accessed through a type MBean stub.
32. (New): The method of claim 31, wherein an MBean stub provides a reference to a java object which implements an interface specific to the custom MBean.
33. (New): The method of claim 32, wherein stubs are generated dynamically at runtime.

34. (New): The method of claim 1, wherein a factory model is provided for creating MBean instances.

35. (New): The method of claim 1, wherein MBean delegates are derived from an existing MBean.

36. (New): The method of claim 1, wherein MBeans that are declared to be persistent are automatically saved to a repository.

37. (New): The method of claim 1, wherein each custom MBean is stored in a separate file and is shadowed for failsafe writes.